

**DEPARTMENT OF THE AIR FORCE  
TECHNICAL ORDER**

TO 31P1-4-108-548  
DATA CODE: 3117799  
1 July 1997  
Rescission date: 1 July 1998

**RETROFIT OF HIGH VOLTAGE CABLES IN THE  
TRANSMITTER (UD3); WSR-88D DOPPLER  
METEOROLOGICAL RADAR**

**NOTE**

Military Commanders are responsible for bringing this technical order to the attention of all maintenance personnel cleared for access of affected system.

**1. APPLICATION.**

1.1 Identification. This TCTO is applicable to all WSR-88D RDA sites.

1.2 Kit Applicability by Model and Serial Number. Not applicable.

1.3 Proofing. Kit Proofing was accomplished at WSFO Billings, MT.

**2. PURPOSE.**

The purpose of this Routine Action TCTO is to replace the existing high voltage cables between UD3A11 to UD3A12, and UD3A8 to UD3A12 with high voltage cables, Part no. 2210002-201, and 2210002-202, to eliminate a cable failure problem. This failure results in high voltage power not provided to the Transmitter Modulator Pulse Assembly (UD3A12). The authority for this TCTO is ECP F0071-R01A00.

**3. WHEN TO BE ACCOMPLISHED.**

Not later than 60 days after receipt of TCTO and kit. Failure to accomplish the work by expiration of compliance period or 60 days prior to rescission date will be justification for withdrawing the affected system from service until compliance is accomplished.

**4. BY WHOM TO BE ACCOMPLISHED.**

Organizational level personnel will accomplish this modification.

**5. WHAT IS REQUIRED.**

**Distribution Statement A - Approved for public release; distribution is unlimited.**

## TO 31P1-4-108-548

### 5.1 Supply-Information and Requirements.

5.1.1 Kits/Parts/Material Required. The following parts make up the kit for this modification.  
***The OSF Logistics Section will direct ship the required kit to the NEXRAD maintenance facility at no cost.***

<u>Nomenclature</u>	<u>Part No.</u>	<u>NSN</u>	<u>QTY</u>
3W900 - Cable	2210002-201	5995-01-431-3318	01
3W901 - Cable	2210002-202	5995-01-431-3312	01

5.1.2 Action Required on Items in Stock. Not applicable.

5.1.3 Kits/Parts/Material Required to Modify Items in Stock. Not applicable.

5.1.4 Disposition of Removed and Replaced Parts/Material. Dispose of old high voltage cable, IAW local supply disposal procedures.

5.1.5 Drawings and Instructions Required. Not applicable.

5.1.6 Size and Weight of Kits/Parts/Materials. Size, weight and cost are estimated.

<u>Size</u>	<u>Weight</u>	<u>Cost</u>
12 in x 12 in x 3 in	2 Pounds	\$395.00

5.1.7 Disposition of Kits/Parts/Materials. Not applicable.

5.2 Personnel Information and Requirement. The personnel performing this task will have maintenance and test experience with WSR-88D Transmitter. One technician is required for this procedure.

<u>Work Phases</u>	<u>AFSC Skills</u>	<u>Man-Hours</u>
Unpacking	2E051	0.1
Disassembly	2E051	1.4
Installation	2E051	1.5
Assembly	Not applicable	
Operational Check	2E051	1.0
	Total Man-Hours	3.0

5.3 Special Tools and Fixtures Required. Not applicable.

6. HOW WORK IS ACCOMPLISHED. Refer to attachment 1.

7. SUPPLEMENTAL INFORMATION.

7.1 Fuel System Defuel/Purge. Not applicable.

7.2 Operational Checkout Requirements. Refer to attachment 1.

7.3 Weight and Balance Information. Not applicable.

7.4 Technical Manuals Affected.

Technical Manual

Date

TO 31P1-4-108-4 (EHB 6-501)

1 August 1996

8. RECORDS.

8.1 Action Required on Maintenance Records.

- a. Update AFTO Form 95 to show TCTO compliance.
- b. Report TCTO compliance in accordance with TO 00-20-2, Table 3-10, Rule 9.
- c. Complete attachment 2 and mail, fax or e-mail information to:

System Support Branch, Logistics Section  
Operational Support Facility  
3200 Marshall Ave, Suite 101  
Norman, Oklahoma 73072-8028

Fax number: (405) 366-6553

E-mail address: Logistics@osf.noaa.gov

8.2 Action Required on Supply Records. Not applicable.

**TO 31P1-4-108-548**

8.3 Modification Markings. Not applicable.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

MICHAEL E. RYAN, General, USAF  
Chief of Staff

Signed  
Edward L. Berkowitz, Chief  
System Support Branch  
Operational Support Facility  
TOMA